WEST Search History

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DATE: Friday, August 05, 2005

Hide?	Set Name	Query	Hit Count
		DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ	
☐	L51	L50 and (address$ same quer$2)	7
☐	L50	l2 and l26	7
☐	L49	l15 and 714/39.ccls.	1
☐	L48	l15 and 714/25.ccls.	0
☐	L47	l15 and l40	4
☐	L46	l15 and l36	3
☐	L45	l15 and l37	0
☐	L44	l15 and l40	4
☐	L43	l15 and l36	3
☐	L42	l16 and l36	0
☐	L41	l16 and l35	0
☐	L40	709/220.ccls.	1774
☐	L39	709/226.ccls.	1744
☐	L38	709/221.ccls.	893
☐	L37	370/242.ccls.	737
☐	L36	370/217.ccls.	415
☐	L35	370/218.ccls.	251
☐	L34	(ip or internet protocol) and (address$ same quer$2) same test$ and 370/218.ccls.	0
☐	L33	6392990.pn.	2
☐	L32	(ethernet adj switch$2) and (manag$4 or control$4 or trak$) and (assign$ or allocat$) same (ip or internet protocol) and (address$ same quer$2) same test$	0
☐	L31	(ethernet adj switch$2) and (manag$4 or control$4 or trak$) and (assign$ or allocat$) same (ip or internet protocol) same address$ and (address$ same quer$2) same test$	0
☐	L30	(ethernet adj switch$2) same (manag$4 or control$4) and assign$ same (ip or internet protocol) same address$ and (address$ same quer$2) same test$	0
☐	L29	(ethernet adj switch$2) same (manag$4 or control$4) and assign$ same (ip or internet protocol) same address$ and (address$ same quer$2) and (determin$ same one same address$)	7
☐	L28	(ethernet adj switch$2) same (manag$4 or control$4) and assign$ same (ip or internet protocol) same address$ and (address$ same quer$2) and (determin$ same correct$ same address$)	2

☐	L27	20001107	10
☐	L26	(ethernet adj switch$2) same (manag$4 or control$4) and assign$ same (ip or internet protocol) same address$ and (address$ same known same quer$2)	10
		DB=PGPB,USPT,USOC,EPAB; PLUR=YES; OP=ADJ	
☐	L25	(ethernet adj switch$2) same (manag$4 or control$4) and assign$ same (ip or internet protocol) same address same device$ and (address$ same known same quer$2)	1
		DB=PGPB,USPT; PLUR=YES; OP=ADJ	
☐	L24	ip same mac same switch$ same port same address same known same query	3
☐	L23	ip same mac same switch$ same port same address same known	103
☐	L22	monitor$ same half same path same server	5
☐	L21	monitor$ same half same path	1030
		DB=PGPB,USPT,USOC,EPAB; PLUR=YES; OP=ADJ	
☐	L20	ip same mac same switch$ same port same address	561
☐	L19	L18 and (determin$ same correct$ same address$)	7
☐	L18	(ethernet adj switch$2) same (manag$4 or control$4) and assign$ same (ip or internet protocol) same address$ same device$	69
		DB=DWPI; PLUR=YES; OP=ADJ	
☐	L17	(ethernet adj switch$2) same (manag$4 or control$4) and assign$ same (ip or internet protocol) same address same device$	1
		DB=USPT; PLUR=YES; OP=ADJ	
☐	L16	(ethernet adj switch$2) same (manag$4 or control$4) and assign$ same (ip or internet protocol) same address same device$	17
☐	L15	(ethernet adj switch$2) same (manag$4 or control$4)	252
☐	L14	1531 and L13	0
☐	L13	L8 and L12	6
☐	L12	L4 and L11	168
☐	L11	L3 and L10	359
☐	L10	assign$ same (ip or internet protocol) same address same device$	903
☐	L9	L4 and L8	6
☐	L8	assign$ same (network adj switch$) same address	119
☐	L7	quir$ same (network adj switch$)	0
☐	L6	L4 and L5	14
☐	L5	manag$ same (network adj switch$)	888
☐	L4	(mac or media access control) and L3	389
☐	L3	determin$ same (ip or internet protocol) same device same address	1015
☐	L2	determin$ same (ip or internet protocol) same device	1857
☐	L1	6321272.pn.	1

END OF SEARCH HISTORY

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DATE: Friday, August 05, 2005

Hide?	Set Name	Query	Hit Count
		DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ	
☐	L49	l15 and 714/39.ccls.	1
☐	L48	l15 and 714/25.ccls.	0
☐	L47	l15 and l40	4
☐	L46	l15 and l36	3
☐	L45	l15 and l37	0
☐	L44	l15 and l40	4
☐	L43	l15 and l36	3
☐	L42	l16 and l36	0
☐	L41	l16 and l35	0
☐	L40	709/220.ccls.	1774
☐	L39	709/226.ccls.	1744
☐	L38	709/221.ccls.	893
☐	L37	370/242.ccls.	737
☐	L36	370/217.ccls.	415
☐	L35	370/218.ccls.	251
☐	L34	(ip or internet protocol) and (address$ same quer$2) same test$ and 370/218.ccls.	0
☐	L33	6392990.pn.	2
☐	L32	(ethernet adj switch$2) and (manag$4 or control$4 or trak$) and (assign$ or allocat$) same (ip or internet protocol) and (address$ same quer$2) same test$	0
☐	L31	(ethernet adj switch$2) and (manag$4 or control$4 or trak$) and (assign$ or allocat$) same (ip or internet protocol) same address$ and (address$ same quer$2) same test$	0
☐	L30	(ethernet adj switch$2) same (manag$4 or control$4) and assign$ same (ip or internet protocol) same address$ and (address$ same quer$2) same test$	0
☐	L29	(ethernet adj switch$2) same (manag$4 or control$4) and assign$ same (ip or internet protocol) same address$ and (address$ same quer$2) and (determin$ same one same address$)	7
☐	L28	(ethernet adj switch$2) same (manag$4 or control$4) and assign$ same (ip or internet protocol) same address$ and (address$ same quer$2) and (determin$ same correct$ same address$)	2
☐	L27	20001107	10
		(ethernet adj switch$2) same (manag$4 or control$4) and assign$ same (ip or	

☐	L26	internet protocol) same address$ and (address$ same known same quer$2)	10
		DB=PGPB,USPT,USOC,EPAB; PLUR=YES; OP=ADJ	
☐	L25	(ethernet adj switch$2) same (manag$4 or control$4) and assign$ same (ip or internet protocol) same address same device$ and (address$ same known same quer$2)	1
		DB=PGPB,USPT; PLUR=YES; OP=ADJ	
☐	L24	ip same mac same switch$ same port same address same known same query	3
☐	L23	ip same mac same switch$ same port same address same known	103
☐	L22	monitor$ same half same path same server	5
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☐	L19	L18 and (determin$ same correct$ same address$)	7
☐	L18	(ethernet adj switch$2) same (manag$4 or control$4) and assign$ same (ip or internet protocol) same address$ same device$	69
		DB=DWPI; PLUR=YES; OP=ADJ	
☐	L17	(ethernet adj switch$2) same (manag$4 or control$4) and assign$ same (ip or internet protocol) same address same device$	1
		DB=USPT; PLUR=YES; OP=ADJ	
☐	L16	(ethernet adj switch$2) same (manag$4 or control$4) and assign$ same (ip or internet protocol) same address same device$	17
☐	L15	(ethernet adj switch$2) same (manag$4 or control$4)	252
☐	L14	1531 and L13	0
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☐	L12	L4 and L11	168
☐	L11	L3 and L10	359
☐	L10	assign$ same (ip or internet protocol) same address same device$	903
☐	L9	L4 and L8	6
☐	L8	assign$ same (network adj switch$) same address	119
☐	L7	quir$ same (network adj switch$)	0
☐	L6	L4 and L5	14
☐	L5	manag$ same (network adj switch$)	888
☐	L4	(mac or media access control) and L3	389
☐	L3	determin$ same (ip or internet protocol) same device same address	1015
☐	L2	determin$ same (ip or internet protocol) same device	1857
☐	L1	6321272.pn.	1

END OF SEARCH HISTORY

Results for "((dns and ip and mac and router)<in>metadata)"
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((dns and ip and mac and router)<in>metadata)

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Display Format: Citation Citation & Abstract

» Key

IEEE JNL	IEEE Journal or Magazine
IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

No results were found.

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((mac and ip and ethernet)<in>metadata)

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IEEE JNL	IEEE Journal or Magazine
IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

Select Article Information

1. **Group communication system based on MAC-over-IP**
Irie, K.; Kumagai, T.; Suto, K.; Ohta, N.;
Local and Metropolitan Area Networks, 1999. Selected Papers. 10th IEEE Wor
21-24 Nov. 1999 Page(s):71 - 77
Digital Object Identifier 10.1109/LANMAN.1999.939959
AbstractPlus | Full Text: PDF(468 KB) IEEE CNF

2. **Soft real-time communication over ethernet with adaptive traffic smoothi**
Seok-Kyu Kweon; Cho, M.-G.; Shin, K.G.;
Parallel and Distributed Systems, IEEE Transactions on
Volume 15, Issue 10, Oct. 2004 Page(s):946 - 959
Digital Object Identifier 10.1109/TPDS.2004.59
AbstractPlus | References | Full Text: PDF(1320 KB) IEEE JNL

3. **Specification and design of an Ethernet interface soft IP**
Fragoso, J.; Costa, E.; Rochol, J.; Bampi, S.; Reis, R.;
Integrated Circuits and Systems Design, 1999. Proceedings. XII Symposium o
29 Sept.-2 Oct. 1999 Page(s):216 - 219
Digital Object Identifier 10.1109/SBCCI.1999.803125
AbstractPlus | Full Text: PDF(64 KB) IEEE CNF

4. **A proposal of fast vertical handover by virtual MAC address scheme on n**
Ishibashi, K.; Okubo, A.; Sakakura, T.; Kuroda, M.;
Local and Metropolitan Area Networks, 2004. LANMAN 2004. The 13th IEEE V
25-28 April 2004 Page(s):145 - 149
Digital Object Identifier 10.1109/LANMAN.2004.1338421
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5. **Scalable Mobile Ethernet and fast vertical handover**
Kuroda, M.; Inoue, M.; Okubo, A.; Sakakura, T.; Shimizu, K.; Adachi, F.;
Wireless Communications and Networking Conference, 2004. WCNC. 2004 IE
Volume 2, 21-25 March 2004 Page(s):659 - 664 Vol.2
AbstractPlus | Full Text: PDF(433 KB) IEEE CNF

6. **Efficient framing and ARQ for high-speed PLC systems**
Katar, S.; Yonge, L.; Newman, R.; Latchman, H.;
Power Line Communications and Its Applications, 2005 International Symposiu

6-8 April 2005 Page(s):27 - 31
Digital Object Identifier 10.1109/ISPLC.2005.1430459

AbstractPlus | Full Text: PDF(1723 KB) IEEE CNF

7. **A media access control method for high-speed power line communicatio modems**
Ohmi, S.; Yoshida, S.; Yamaguchi, T.; Kuroda, G.;
Consumer Communications and Networking Conference, 2004. CCNC 2004. F
5-8 Jan. 2004 Page(s):295 - 300
Digital Object Identifier 10.1109/CCNC.2004.1286875

AbstractPlus | Full Text: PDF(1991 KB) IEEE CNF

8. **Design of a parametrizable low cost Ethernet MAC core for SoC solutions**
Moreno Zamora, J.A.; Rodriguez Corrales, P.J.; Sanchez Perez, J.M.;
System-on-Chip, 2003. Proceedings. International Symposium on
19-21 Nov. 2003 Page(s):139 - 142
Digital Object Identifier 10.1109/ISSOC.2003.1267737

AbstractPlus | Full Text: PDF(335 KB) IEEE CNF

9. **Ethernet for space flight applications**
Webb, E.;
Aerospace Conference Proceedings, 2002. IEEE
Volume 4, 2002 Page(s):4-1927 - 4-1934 vol.4
Digital Object Identifier 10.1109/AERO.2002.1036905

AbstractPlus | Full Text: PDF(908 KB) IEEE CNF

10. **A first person IP over HDSL case study**
Smith, W.;
System Sciences, 2003. Proceedings of the 36th Annual Hawaii International (
6-9 Jan 2003 Page(s):10 pp.
Digital Object Identifier 10.1109/HICSS.2003.1174336

AbstractPlus | Full Text: PDF(439 KB) IEEE CNF

11. **Intelligent devices for appliances control in home networks**
Leventis, A.; Antonakopoulos, T.; Stavroulopoulos, C.; Luckenbach, T.; Makios
Consumer Electronics, IEEE Transactions on
Volume 49, Issue 2, May 2003 Page(s):328 - 336
Digital Object Identifier 10.1109/TCE.2003.1209521

AbstractPlus | Full Text: PDF(629 KB) IEEE JNL

12. **A low-cost and very small wireless terminal integrated on the back of a fl for 26 GHz band fixed wireless access systems**
Miura, O.; Shirosaki, T.; Taniguchi, S.; Kazama, A.; Kimura, U.; Hirokawa, J.; A
Wireless Communication Technology, 2003. IEEE Topical Conference on
15-17 Oct. 2003 Page(s):325 - 326
Digital Object Identifier 10.1109/WCT.2003.1321542

AbstractPlus | Full Text: PDF(242 KB) IEEE CNF

13. **Converged voice, video and data wired-wireless LANs testbed**
Ganz, A.; Phonphoem, A.; Llopis, N.; Kim, I.; Wongthavarawat, K.; Ganz, Z.;
Military Communications Conference Proceedings, 1999. MILCOM 1999. IEEE
Volume 2, 31 Oct.-3 Nov. 1999 Page(s):1297 - 1301 vol.2
Digital Object Identifier 10.1109/MILCOM.1999.821413

AbstractPlus | Full Text: PDF(548 KB) IEEE CNF

14. **A middleware approach to asynchronous and backward compatible dete prevention of ARP cache poisoning**
Tripunitara, M.V.; Dutta, P.;

Computer Security Applications Conference, 1999. (ACSAC '99) Proceedings.
6-10 Dec. 1999 Page(s):303 - 309
Digital Object Identifier 10.1109/CSAC.1999.816040
AbstractPlus | Full Text: PDF(268 KB) IEEE CNF

15. **Jenet: a "New age" CAMAC crate controller**
Pompili, F.; Pisani, P.; Zanghieri, U.; Piano, S.;
Nuclear Science Symposium Conference Record, 2003 IEEE
Volume 2, 19-25 Oct. 2003 Page(s):1257 Vol.2
AbstractPlus | Full Text: PDF(210 KB) IEEE CNF

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Digital Object Identifier 10.1109/TPDS.2004.59
AbstractPlus | References | Full Text: PDF(1320 KB) **IEEE JNL**

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Moreno Zamora, J.A.; Rodriguez Corrales, P.J.; Sanchez Perez, J.M.;
System-on-Chip, 2003. Proceedings. International Symposium on
19-21 Nov. 2003 Page(s):139 - 142
Digital Object Identifier 10.1109/ISSOC.2003.1267737
AbstractPlus | Full Text: PDF(335 KB) **IEEE CNF**

Terms used
mac and **ip** and **ethernet** and **switch** and **test** and **reply** and **report** and **query**

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Relevance scale

1 Topology discovery for large ethernet networks
Bruce Lowekamp, David O'Hallaron, Thomas Gross
August 2001 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications**, Volume 31 Issue 4
Full text available: pdf(144.05 KB) Additional Information: full citation, abstract, references, citings, index terms

Accurate network topology information is important for both network management and application performance prediction. Most topology discovery research has focused on wide-area networks and examined topology only at the IP router level, ignoring the need for LAN topology information. Recent work has demonstrated that bridged Ethernet topology can be determined using standard SNMP MIBs; however, these algorithms require each bridge to learn about all other bridges in the network. Our approach to ...

2 Mobile and multicast IP services in PACS: system architecture, prototype, and performance
Yongguang Zhang, Bo Ryu
January 2001 **Mobile Networks and Applications**, Volume 6 Issue 1
Full text available: pdf(299.74 KB) Additional Information: full citation, references, citings, index terms

Keywords: Mobile IP, PACS, cellular network, internet service, multicast

3 Preformance Evaluation: An integrated environment for testing mobile ad-hoc networks
Yongguang Zhang, Wei Li
June 2002 **Proceedings of the 3rd ACM international symposium on Mobile ad hoc networking & computing**
Full text available: pdf(315.26 KB) Additional Information: full citation, abstract, references, citings, index terms

Mobile Ad-Hoc Network (MANET) has become an increasingly active research area with a plethora of work in ad-hoc routing, media access, and protocols, etc. However, much of the effort so far has been in simulation with only a few systems that have ever been implemented and none that we know have been tried in a scale beyond a dozen nodes. One reason is the high complexity involved in implementing and testing actual ad-hoc networks,

and the lack of software tools for doing so. We have thus built a ...

Keywords: MANET, emulation, mobile ad hoc networks, multi-hop routing, packet filter, testbed

4 Notable computer networks
John S. Quarterman, Josiah C. Hoskins
October 1986 **Communications of the ACM**, Volume 29 Issue 10

Full text available: pdf(4.66 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Computer networks are becoming more numerous and more diverse. Collectively, they constitute a worldwide metanetwork.

5 Technical reports
SIGACT News Staff
January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Full text available: pdf(5.28 MB) Additional Information: full citation

6 Reworking the RPC paradigm for mobile clients
Ajay V. Bakre, B. R. Badrinath
December 1996 **Mobile Networks and Applications**, Volume 1 Issue 4

Full text available: pdf(326.54 KB) Additional Information: full citation, abstract, references, citings, index terms

Remote Procedure Call (RPC) is a popular paradigmfor designing distributed applications. The existing RPC implementations, however, do not allow special treatment of mobile hosts and wireless links; which can be a cause of degraded performance and service disruptions in the presence of disconnections, moves and wireless errors. In addition, future information oriented and location aware mobile applications will also need the ability to dynamically bind mobile clients to local information se ...

7 Tools and Methodologies: Nsclick:: bridging network simulation and deployment
Michael Neufeld, Ashish Jain, Dirk Grunwald
September 2002 **Proceedings of the 5th ACM international workshop on Modeling analysis and simulation of wireless and mobile systems**

Full text available: pdf(279.41 KB) Additional Information: full citation, abstract, references, citings, index terms

Ad hoc network protocols are often developed, tested and evaluated using simulators. However, when the time comes to deploy those protocols for use or testing on real systems the protocol must be reimplemented for the target platform. This usually results in two, completely separate code-bases that must be maintained. Bugs which are found and fixed under simulated conditions must also be fixed separately in the deployed implementation, and vice versa. There is ample opportunity for the two imple ...

Keywords: ad hoc, click, ns, simulation

8 Network management capabilities for switched multi-megabit data service
David M. Piscitello, Patrick J. Sher
April 1990 **ACM SIGCOMM Computer Communication Review**, Volume 20 Issue 2

Full text available: pdf(831.90 KB) Additional Information: full citation, abstract, index terms

This paper discusses network management capabilities for a specific BOC data service, SMDS, and the role that a BOC network providing this service can play in the overall management strategy of a subscriber owned and operated data network. The paper describes user needs for managing the computing equipment and communications services that comprise a data network, and suggests several ways in which a BOC network could offer network management features that complement and are synergistic with the ...

9 Practical byzantine fault tolerance and proactive recovery

Miguel Castro, Barbara Liskov

November 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 4

Full text available: pdf(1.63 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Our growing reliance on online services accessible on the Internet demands highly available systems that provide correct service without interruptions. Software bugs, operator mistakes, and malicious attacks are a major cause of service interruptions and they can cause arbitrary behavior, that is, Byzantine faults. This article describes a new replication algorithm, BFT, that can be used to build highly available systems that tolerate Byzantine faults. BFT can be used in practice to implement re ...

Keywords: Byzantine fault tolerance, asynchronous systems, proactive recovery, state machine replication, state transfer

10 Service infastructure and network management: Architecture and techniques for diagnosing faults in IEEE 802.11 infrastructure networks

Atul Adya, Paramvir Bahl, Ranveer Chandra, Lili Qiu

September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking**

Full text available: pdf(303.82 KB) Additional Information: full citation, abstract, references, index terms

The wide-scale deployment of IEEE 802.11 wireless networks has generated significant challenges for Information Technology (IT) departments in corporations. Users frequently complain about connectivity and performance problems, and network administrators are expected to diagnose these problems while managing corporate security and coverage. Their task is particularly difficult due to the unreliable nature of the wireless medium and a lack of intelligent diagnostic tools for determining the cause ...

Keywords: IEEE 802.11, disconnected clients, fault detection, fault diagnosis, infrastructure wireless networks, rogue APs

11 Full TCP/IP for 8-bit architectures

Adam Dunkels

May 2003 **Proceedings of the 1st international conference on Mobile systems, applications and services MobiSys '03**

Full text available: pdf(199.60 KB) Additional Information: full citation, abstract, references

We describe two small and portable TCP/IP implementations fulfilling the subset of RFC1122 requirements needed for full host-to-host interoperability. Our TCP/IP implementations do not sacrifice any of TCP's mechanisms such as urgent data or congestion control. They support IP fragment reassembly and the number of multiple simultaneous connections is limited only by the available RAM. Despite being small and simple, our implementations do not require their peers to have complex, full-size stacks ...

12 A control and management network for wireless ATM systems

Stephen F. Bush, Sunil Jagannath, Ricardo Sanchez, Joseph B. Evans, Gary J. Minden, K. Sam Shanmugan, Victor S. Frost
September 1997 **Wireless Networks**, Volume 3 Issue 4

Full text available: pdf(573.05 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes the design of a control and management network (orderwire) for a mobile wireless Asynchronous Transfer Mode (ATM) network. This mobile wireless ATM network is part of the Rapidly Deployable Radio Network (RDRN). The orderwire system consists of a packet radio network which overlays the mobile wireless ATM network. Each network element in this network uses Global Positioning System (GPS) information to control a beamforming antenna subsystem which provides for spatial re ...

13 Routing optimizations: A high-throughput path metric for multi-hop wireless routing

Douglas S. J. De Couto, Daniel Aguayo, John Bicket, Robert Morris
September 2003 **Proceedings of the 9th annual international conference on Mobile computing and networking**

Full text available: pdf(265.80 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents the *expected transmission count* metric (ETX), which finds high-throughput paths on multi-hop wireless networks. ETX minimizes the expected total number of packet transmissions (including retransmissions) required to successfully deliver a packet to the ultimate destination. The ETX metric incorporates the effects of link loss ratios, asymmetry in the loss ratios between the two directions of each link, and interference among the successive links of a path. In contrast, ...

Keywords: 802.11b, DSDV, DSR, ETX, ad hoc networks, multi-hop wireless networks, rooftop networks, route metrics, wireless routing

14 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

15 Contact networking: a localized mobility system

Casey Carter, Robin Kravets, Jean Tourrilhes
May 2003 **Proceedings of the 1st international conference on Mobile systems, applications and services MobiSys '03**

Full text available: pdf(232.79 KB) Additional Information: full citation, abstract, references

MobileIP, the standard for Internet mobility, enables transparent mobility for a mobile node, but requires communication to take a multihop path through the node's Home Agent. Although a user with a multiple-interface mobile node may desire the ability to communicate locally, perhaps while disconnected from the Internet, MobileIP offers no such support.Contact Networking provides lightweight, localized network communication to a node with diverse network interfaces. The goal is to provide suppor ...

16 Performance analysis of several back-end database architectures
Robert Brian Hagmann, Domenico Ferrari
March 1986 **ACM Transactions on Database Systems (TODS)**, Volume 11 Issue 1

Full text available: pdf(1.54 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The growing acceptance of database systems makes their performance increasingly more important. One way to gain performance is to off-load some of the functions of the database system to aback-end computer. The problem is what functions should be off-loaded to maximize the benefits of distributed processing. Our approach to this problem consisted of constructing several variants of an existing relational database system. INGRES, that partition the database system software into tw ...

17 Topology discovery in heterogeneous IP networks: the *NetInventory* system
Yuri Breitbart, Minos Garofalakis, Ben Jai, Cliff Martin, Rajeev Rastogi, Avi Silberschatz
June 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 3

Full text available: pdf(435.97 KB) Additional Information: full citation, abstract, references, index terms

Knowledge of the up-to-date physical topology of an IP network is crucial to a number of critical network management tasks, including reactive and proactive resource management, event correlation, and root-cause analysis. Given the dynamic nature of today's IP networks, keeping track of topology information manually is a daunting (if not impossible) task. Thus, effective algorithms for automatically discovering physical network topology are necessary. Earlier work has typically concentrated on e ...

Keywords: IP network management, SNMP MIBs, physical network topology, switched Ethernet

18 Internetworking using switched multi-megabit data service in TCP/IP enviroments
David M. Piscitello, Michael Kramer
July 1990 **ACM SIGCOMM Computer Communication Review**, Volume 20 Issue 3

Full text available: pdf(862.08 KB) Additional Information: full citation, abstract, index terms

TCP/IP based networks were among the earliest and most successful applications of Local Area Network technologies, and TCP/IP-based internets continue to be a testing ground for emerging high performance transmission technologies as well as the distributed processing applications they support. As distributed processing applications become increasingly available in the next decade, consumer demand for high performance transmission services will extend beyond the distance serviceable by LANs; user ...

19 Testbed directions and experience: PlanetLab: an overlay testbed for broad-coverage services
Brent Chun, David Culler, Timothy Roscoe, Andy Bavier, Larry Peterson, Mike Wawrzoniak, Mic Bowman
July 2003 **ACM SIGCOMM Computer Communication Review**, Volume 33 Issue 3

Full text available: pdf(158.92 KB) Additional Information: full citation, abstract, references

PlanetLab is a global overlay network for developing and accessing broad-coverage network services. Our goal is to grow to 1000 geographically distributed nodes, connected by a disverse collection of links. PlanetLab allows multiple service to run concurrently and continuously, each in its own slice of PlanetLab. This paper discribes our initial implementation of PlanetLab, including the mechanisms used to impelment virtualization, and the collection of core services used to manage PlanetLab.

20 Separating key management from file system security

David Mazières, Michael Kaminsky, M. Frans Kaashoek, Emmett Witchel
December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles**, Volume 33 Issue 5

Full text available: pdf(1.77 MB) Additional Information: full citation, abstract, references, citings, index terms

No secure network file system has ever grown to span the Internet. Existing systems all lack adequate key management for security at a global scale. Given the diversity of the Internet, any particular mechanism a file system employs to manage keys will fail to support many types of use.We propose separating key management from file system security, letting the world share a single global file system no matter how individuals manage keys. We present SFS, a secure file system that avoids internal ...

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Inventor: FURUKAWA AKIHIRO (JP); FUKAZAWA KOSHI (JP); (+3) **Applicant:**
EC: H04L29/12A **IPC:** G06F15/173
Publication info: **US2001039590** - 2001-11-08

2 **Protocol address allocation for network devices**
Inventor: BUSE CHRISTOPHER JOHN (GB); WHITE ANDREW PETER (GB); (+3) **Applicant:** 3COM CORP (US)
EC: H04L29/12A **IPC:** H04L12/56; H04L29/06; (+1)
Publication info: **GB2356111** - 2001-05-09

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IEEE JNL	IEEE Journal or Magazine
IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

1. **Redirection algorithms for load sharing in distributed Web-server system**
Cardellini, V.; Colajanni, M.; Yu, P.S.;
Distributed Computing Systems, 1999. Proceedings. 19th IEEE International C
31 May-4 June 1999 Page(s):528 - 535
Digital Object Identifier 10.1109/ICDCS.1999.776555
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